

APPLICANT(S): YELLIN ET AL.
SERIAL NO.: 09/387,310
FILED: 08/31/1999
Page 2

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as canceled:

Claims 1- 3 (Canceled)

Claim 4 (Currently amended): A method comprising:

receiving by a communication terminal an encoded message;

decoding the encoded message based on fewer received symbols than the a number of symbols of the encoded message to provide a decoded message;

correcting error in the decoded message to provide an error corrected message;

decoding the error corrected message to provide a decoded error corrected message; and

based on the decoded message content moving determining whether or not to move the communication terminal to a sleep condition based on a content of the decoded error corrected message.

Claim 5 (Canceled)

Claim 6 (Canceled)

Claim 7 (Previously presented): A method according to claim 4, wherein receiving fewer than all the symbols comprises receiving symbols over a paging channel.

Claim 8 (Canceled)

Claim 9 (Canceled)

Claim 10 (Previously presented): A method according to claim 4, wherein the decoding is completed before receiving all the symbols in the frame.

Claim 11 (Previously presented): A method according to claim 4, wherein the decoding is performed using a predetermined number of received symbols.

APPLICANT(S): YELLIN ET AL.
SERIAL NO.: 09/387,310
FILED: 08/31/1999
Page 3

Claim 12 (Previously presented): A method according to claim 4, wherein the decoding is performed using an adaptively adjusted number of received symbols.

Claim 13 (Previously presented): A method according to claim 12, wherein the decoding comprises decoding using a number of received symbols adjusted responsive to an estimate of the quality of a channel over which the encoded message is received.

Claim 14 (Original): A method according to claim 12, wherein decoding using the adaptively adjusted number of symbols comprises decoding using a number of received symbols adjusted responsive to a rate of decoding successes of previously received messages.

Claim 15 (Original): A method according to claim 12, wherein the decoding comprises decoding using a number of received symbols adjusted responsive to a confidence margin of one or more previous decoding.

Claim 16 (Previously presented): A method according to claim 4, wherein the decoding comprises decoding using the lowest number of received symbols which ensures a predetermined rate of success in decoding the encoded message.

Claim 17 (Currently amended): A method according to claim 4, comprising: receiving symbols of the encoded message while decoding the content of the message.

Claim 18 (Previously presented): A method according to claim 17, comprising decoding the encoded message a second time using more received symbols than used in the previous decoding.

Claim 19 (Previously presented): A method according to claim 18, wherein decoding the encoded message the second time is performed only if the first decoding failed.

Claim 20 (Previously presented): A method according to claim 18, wherein decoding the encoded message the second time comprises using a number of received symbols determined responsive to results of the previous decoding.

APPLICANT(S): YELLIN ET AL.
SERIAL NO.: 09/387,310
FILED: 08/31/1999
Page 4

Claim 21 (Previously presented): A method according to claim 4 6, wherein receiving the symbols comprises receiving during an idle mode of the communication terminal.

Claim 22 (Canceled)

Claim 23 (Currently amended): A method comprising:

receiving at a communication terminal symbols of a frame of an encoded message over a transmission channel;

determining a number of received symbols responsive to the channel on which the symbols are received, wherein the determined number is less than the number of symbols in the frame for at least some of the received messages;

correcting error in the determined number of received symbols based on information received from an error detection bit; and

decoding the frame using the determined number of received symbols.

Claim 24 (Previously presented): A method according to claim 23, wherein determining the number of received symbols comprises determining the number of received symbols responsive to whether the communication terminal is in idle mode.

Claim 25 (Previously presented): A method according to claim 23, wherein determining the number of received symbols comprises determining the number of received symbols responsive to success rates in decoding previously received frames.

Claim 26 (Canceled)

Claim 27 (Previously presented): A method according to claim 23, wherein determining the number of received symbols comprises determining fewer symbols than a total number of symbols in the frame.

Claim 28 (Previously presented): A receiver comprising:

a demodulator to provide a quality indicator based on received symbols of a frame of a transmitted encoded message;

a decoder to decode the frame based on at least some of the received symbols;

and

control circuitry to determine based on the quality indicator how many of the received symbols of the frame are used in decoding the frame, the

APPLICANT(S): YELLIN ET AL.
SERIAL NO.: 09/387,310
FILED: 08/31/1999
Page 5

determined number being fewer than the number of symbols in the frame for at least some of the decoded frames.

Claim 29 (Original) A receiver according to claim 28, comprising a filler unit which provides padding symbols to the decoder in order to complete the received symbols to a complete frame.

Claim 30 (Previously presented): A method comprising:
receiving encoded symbols of a frame of a transmitted encoded message;
altering the values of at least one of the received symbols of the frame to correspond to values of an expected message type; and
decoding the frame based on the altered values.

Claim 31 (Original): A method according to claim 30, wherein receiving the encoded symbols comprises receiving fewer than the number of symbols in the frame.

Claim 32 (Canceled)

Claim 33 (Original): A method according to claim 30, wherein altering the values of at least one of the symbols comprises altering irrespective of the received values.

Claim 34 (Original): A method according to claim 30, wherein altering the values of at least one of the symbols comprises altering responsive to the received values.

Claim 35 (Original): A method according to claim 34, wherein the received encoded symbols comprise soft data and wherein altering the values of at least one of the symbols comprises raising the confidence values of symbols whose values coincide with values of an expected message type.

Claim 36 (Original): A method according to claim 34, wherein the received encoded symbols comprise soft data and wherein altering the values of at least one of the symbols comprises lowering the confidence values of symbols whose values do not coincide with values of an expected message type.

Claim 37 (Original): A method according to claim 30, wherein altering the values of at least one of the symbols comprises altering the values provided the frame is altered less than an allowed extent.

APPLICANT(S): YELLIN ET AL.
SERIAL NO.: 09/387,310
FILED: 08/31/1999
Page 6

Claim 38 (Original): A method according to claim 37, wherein altering the values of at least one of the symbols comprises determining a number of symbols which are to be altered and altering the frame only if the determined number of symbols is lower than an allowed number.

Claim 39 (Original): A method according to claim 30, comprising checking the decoded frame based on an error detection code to determine whether the decoding was successful.

Claim 40 (Original): A method according to claim 39, comprising performing an additional decoding attempt if the decoding was not successful.

Claim 41 (Original) A method according to claim 40, wherein the additional decoding attempt is performed without altering values of any of the symbols.

Claim 42 (Currently Amended) A method of providing a decoded value of a received message indicating that a communication terminal should move to a sleep condition, the method comprising:

receiving encoded symbols of a frame of a transmitted encoded message;

decoding the frame based on at least some of the received encoded symbols, so as to provide decoded bits;

altering the values of at least one of the decoded bits of the frame based on an error detection bit; and

moving said communication terminal to the sleep condition if the decoded values of the bits of the frame including the altered values do not include errors.

Claim 43 (Original) A method according to claim 42, wherein receiving the encoded symbols comprises receiving fewer than the number of symbols in the frame.

Claim 44 (Original) A method according to claim 42, wherein altering the values of at least one of the bits comprises altering the values so as to correspond to values of an expected message type.

Claim 45 (Original): A method according to claim 42, wherein altering the values comprises altering irrespective of the values of the decoded bits.

APPLICANT(S): YELLIN ET AL.

SERIAL NO.: 09/387,310

FILED: 08/31/1999

Page 7

Claim 46 (Original): A method according to claim 42, wherein altering the values comprises altering responsive to the values of the decoded bits.

Claim 47 (Original): A method according to claim 46, wherein altering the values comprises altering the values provided the frame is altered less than an allowed extent.

Cont.
Claim 48 (Original): A method according to claim 47, wherein altering the values comprises determining a number of bits which are to be altered and altering the frame only if the determined number of bits is lower than an allowed number.

Claim 49 (Original): A method according to claim 42, comprising checking the provided decoded values based on an error detection code to determine whether the decoding was successful.

Claim 50 (Original): A method according to claim 49, comprising performing an additional decoding attempt if the decoding was not successful.

Claim 51 (Original): A method according to claim 50, wherein the additional decoding attempt is performed without altering values of any of the bits.
